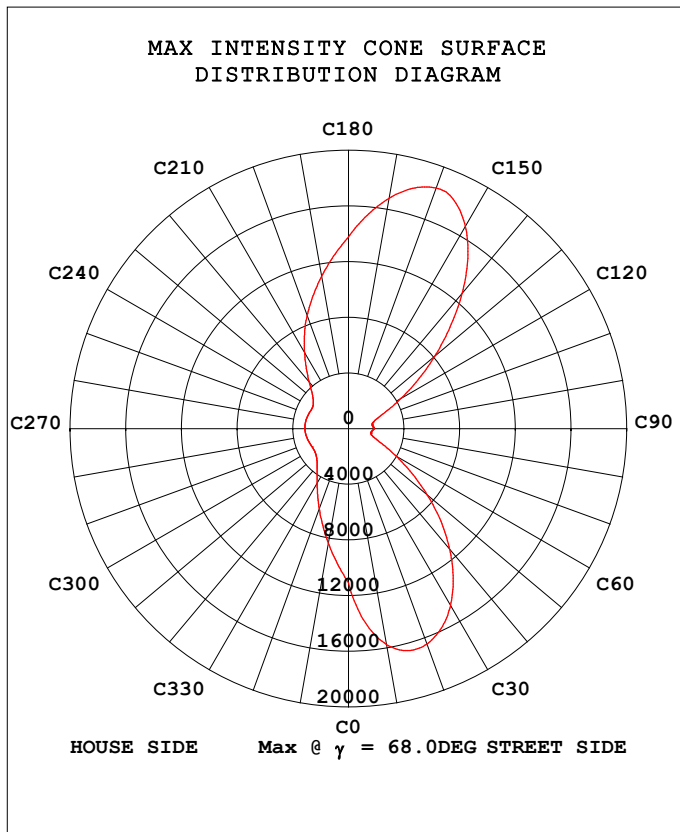
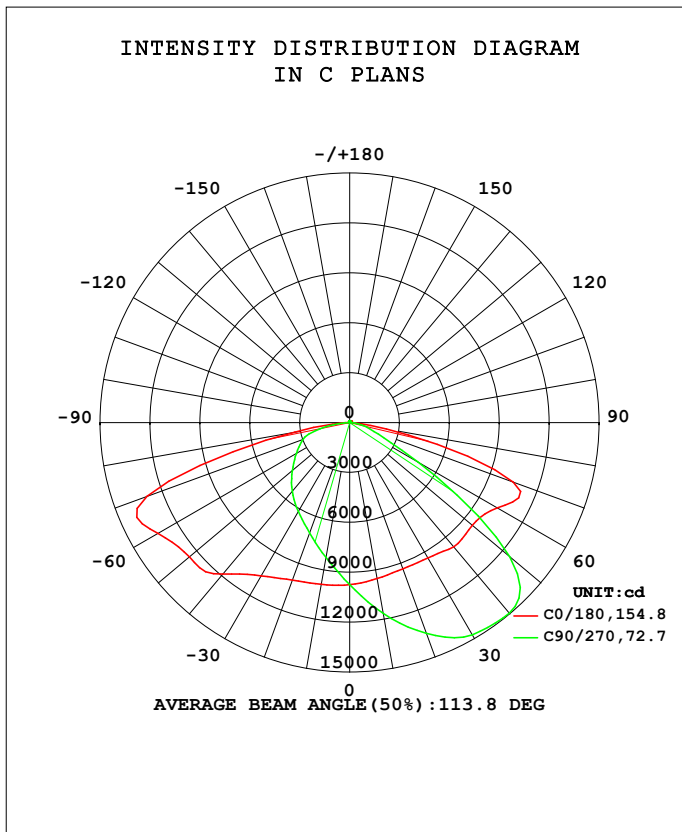


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.89 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	Imax (cd)	18396	η street_up (%)	0.3
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	63.6
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	45931	η house_up (%)	0.4
NOMINAL FLUX (lm)	45931	MAXIMUM @ (C, γ)	158,68.0	η house_down (%)	35.6
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.639



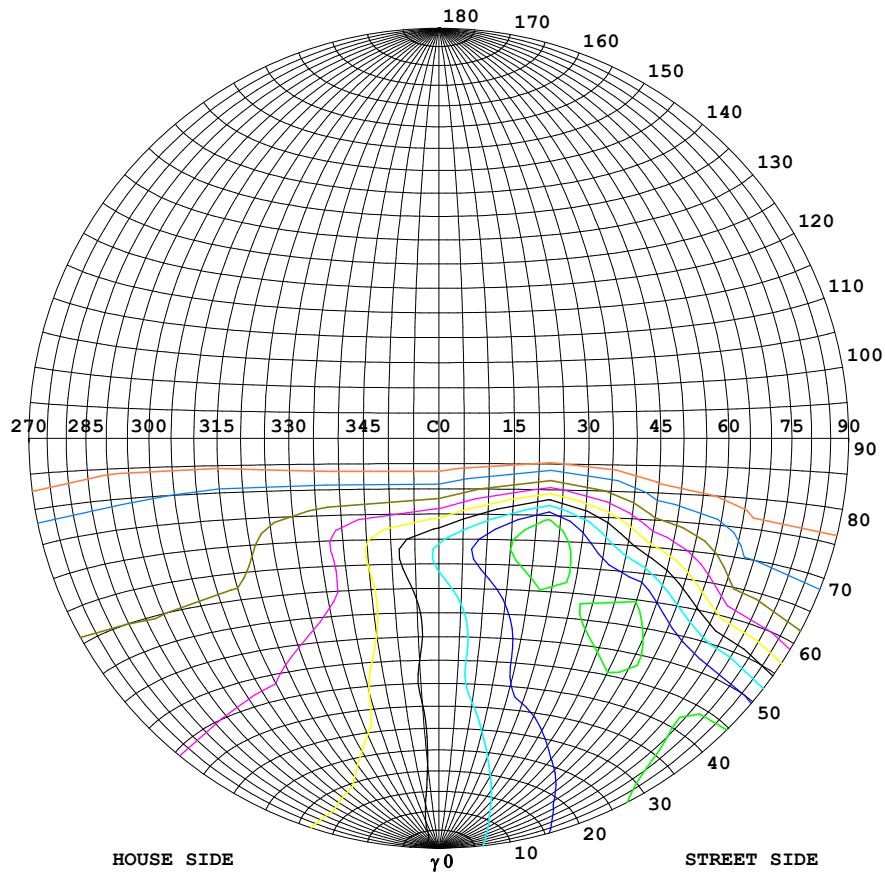
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Medium
 CIE:Average - Intermediate
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:175.2cd/klm
 Max.At90:1.777cd/klm
 Max.80-90:175.2cd/klm

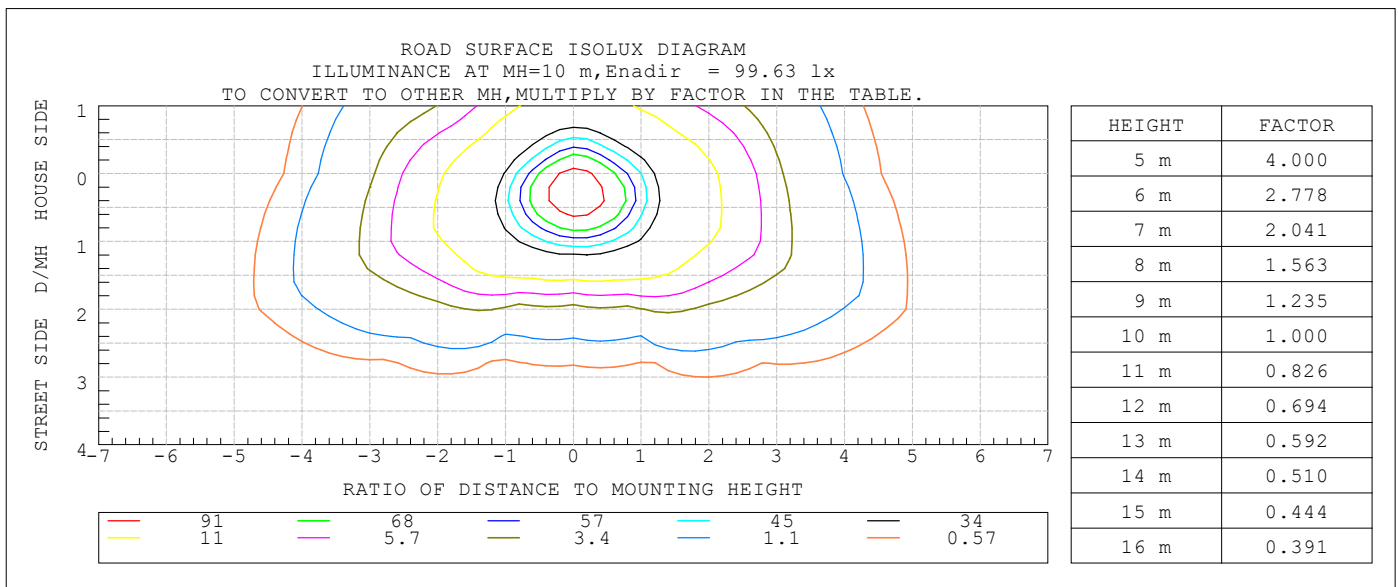
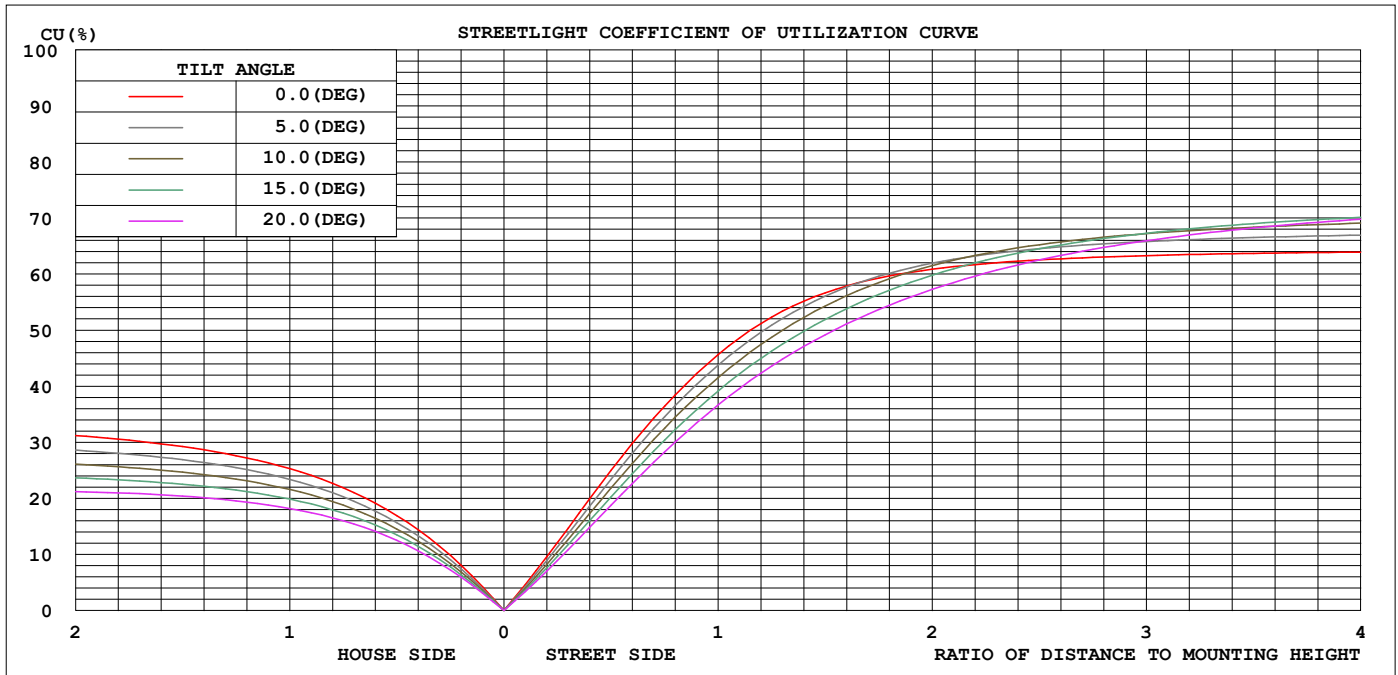
ISOCANDELA DIAGRAM		
UNIT		cd
Imax=100%		18396
90%		16556
80%		14717
70%		12877
60%		11038
50%		9198
40%		7358
30%		5519
20%		3679
10%		1840
5%		920

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:6.895m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature: 25.3°C

Operators: DAMIN

Test Date: 23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity: 65.0%

Test Distance: 6.895m [K=1.0000]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	952.2	1087	1165	1122	987.8	870.4	823.9	851.3	0- 10	934.1	934.1	2.03,2.03
20	935.8	1202	1348	1293	1008	777.5	706.4	749.4	10- 20	2814	3748	8.16,8.16
30	939.7	1328	1473	1497	1064	698.3	618.3	668.5	20- 30	4720	8468	18.4,18.4
40	974.4	1424	1494	1687	1189	624.4	538.3	591.8	30- 40	6619	15087	32.8,32.8
50	962.7	1502	1256	1758	1258	553.4	451.3	503.2	40- 50	8207	23294	50.7,50.7
60	1026	1449	470.8	1611	1332	446.4	370.2	400.1	50- 60	8547	31842	69.3,69.3
70	1047	773.5	157.5	857.1	1296	358.8	300.4	304.6	60- 70	7678	39520	86,86
80	224.7	128.2	58.86	159.3	335.9	260.1	141.5	203.0	70- 80	5069	44589	97.1,97.1
90	3.471	1.869	1.081	8.160	2.243	0.6018	0.4601	2.185	80- 90	978.5	45567	99.2,99.2
100	6.449	2.947	1.626	1.606	4.429	1.639	1.033	4.946	90-100	24.36	45592	99.3,99.3
110	8.809	4.309	2.363	2.310	6.433	3.300	2.742	7.118	100-110	38.82	45630	99.3,99.3
120	11.11	5.819	3.206	3.113	8.480	5.101	5.129	9.234	110-120	52.24	45683	99.5,99.5
130	12.37	6.959	3.890	3.706	9.961	7.066	7.352	10.80	120-130	60.95	45744	99.6,99.6
140	12.17	7.591	4.550	4.241	10.53	8.807	9.470	10.77	130-140	60.64	45804	99.7,99.7
150	11.61	8.242	5.385	4.773	10.26	10.13	10.55	9.768	140-150	52.62	45857	99.8,99.8
160	11.17	9.042	6.335	5.411	10.25	10.89	10.74	8.887	150-160	40.11	45897	99.9,99.9
170	10.95	9.936	7.514	6.220	10.53	11.12	10.20	8.184	160-170	25.31	45922	100,100
180	10.76	10.68	8.874	7.135	10.76	10.69	8.896	7.146	170-180	8.685	45931	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

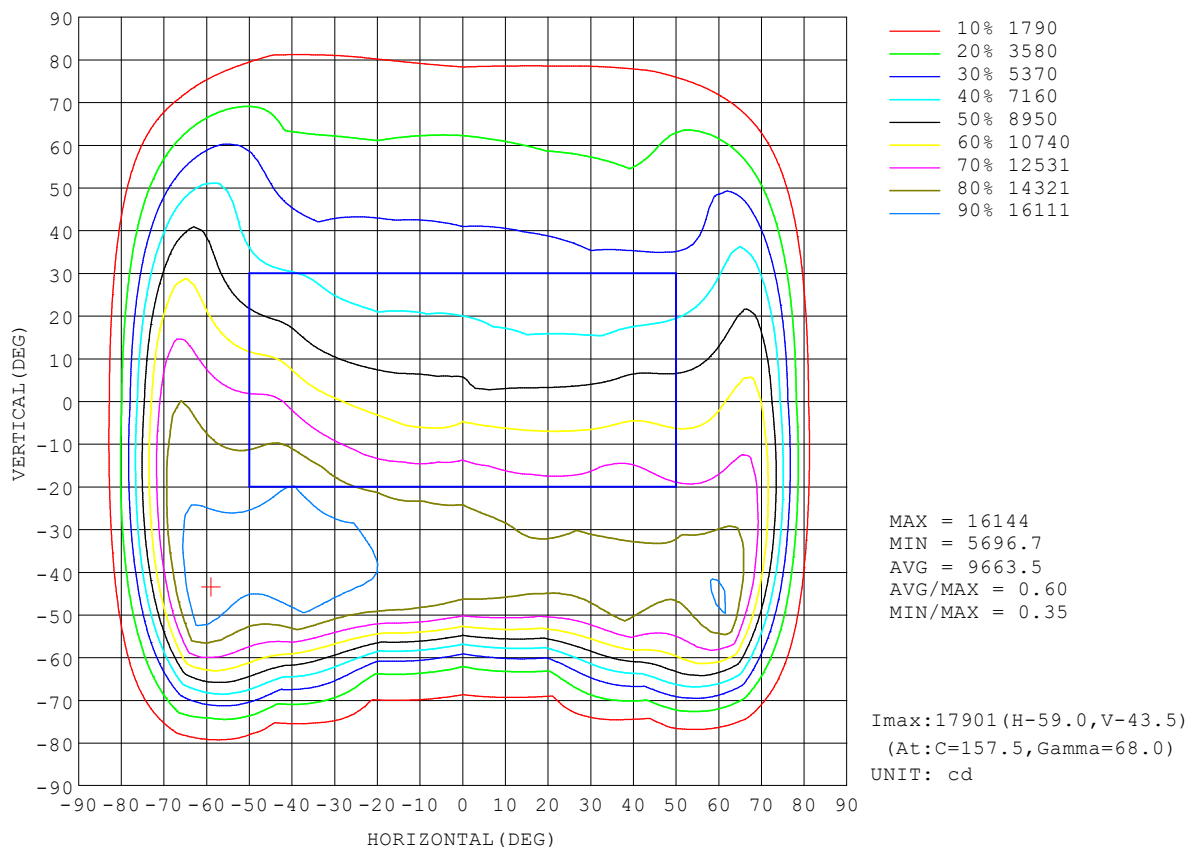
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:6.895m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

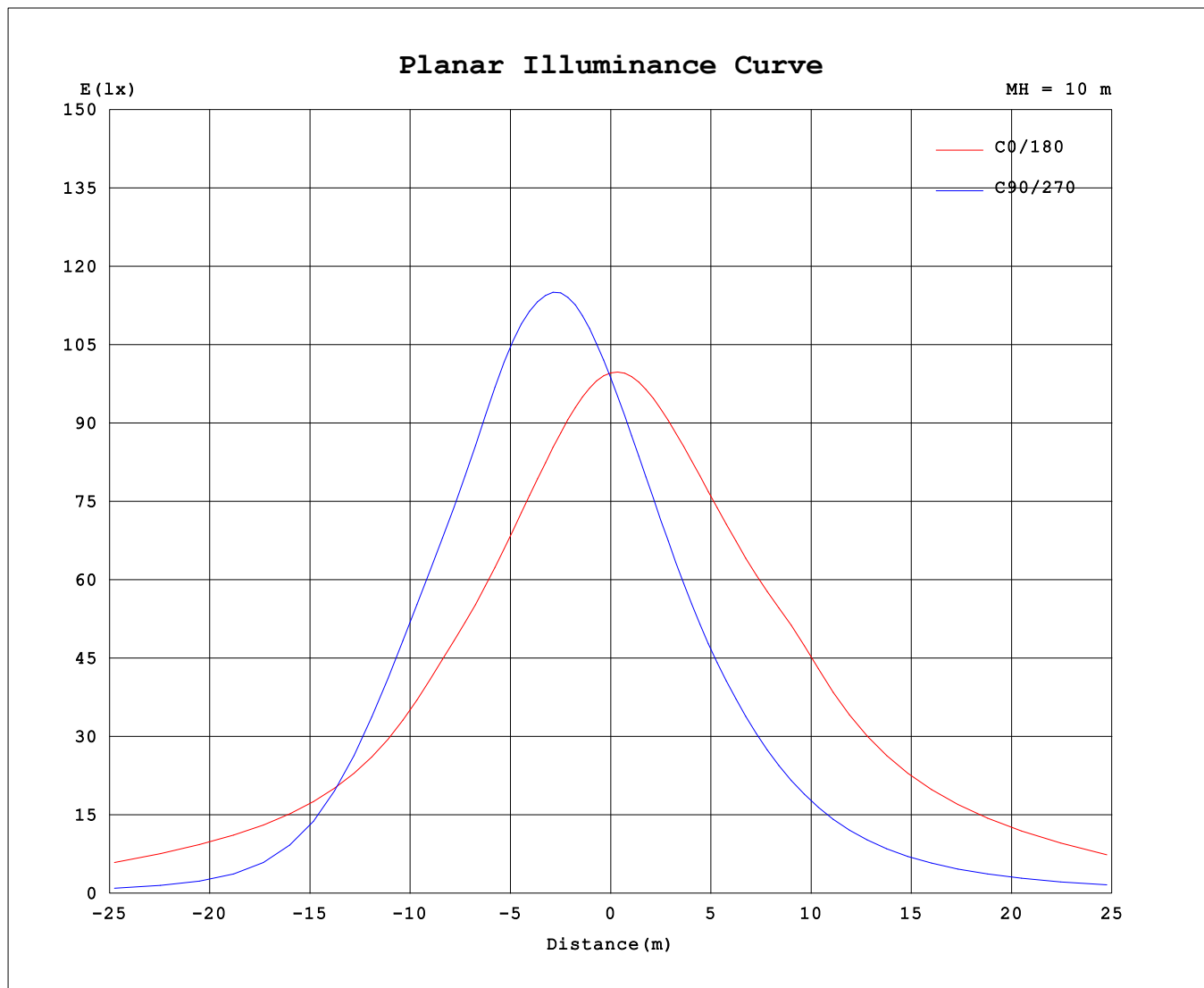
Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature: 25.3 °C

Operators: DAMIN

Test Date: 23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity: 65.0%

Test Distance: 6.895m [K=1.0000]

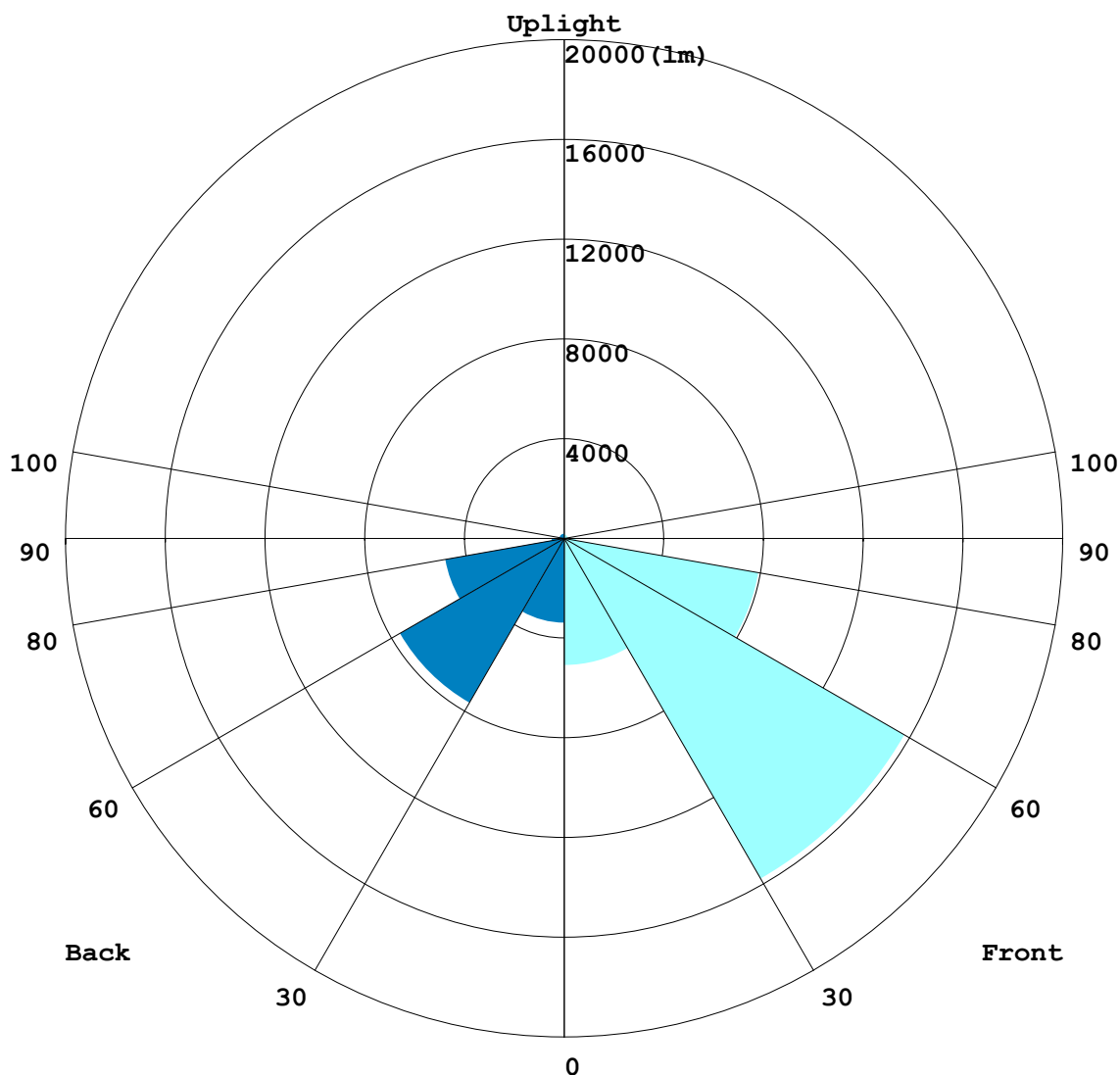
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	5085.4	11.1
FM - Front-Medium(30-60)	15763	34.3
FH - Front-High(60-80)	7907.2	17.2
FVH - Front-Very High(80-90)	475.53	1.0
Total Forward Light	29391	64.0

BL - Back-Low(0-30)	3382.6	7.4
BM - Back-Medium(30-60)	7610.5	16.6
BH - Back-High(60-80)	4840	10.5
BVH - Back-Very High(80-90)	502.97	1.1
Total Back Light	16540	36.0

UL - Uplight-Low(90-100)	24.362	0.1
UH - Uplight-High(100-180)	339.38	0.7
Total Up Light	363.75	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	16336	204.43	16540
Street Side	29231	159.31	29391

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

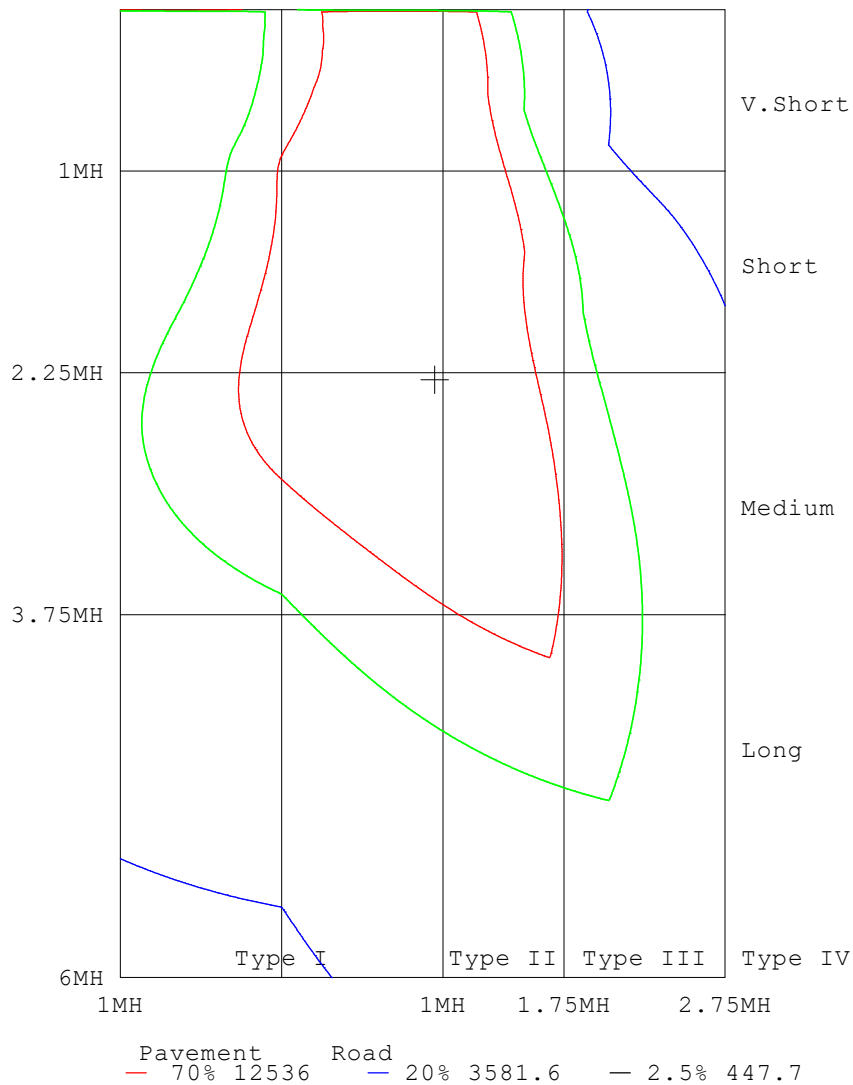
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.10V I:1.1378A P:312.68W PF:0.9917 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.16% KDisp:0.9982 Lamp Flux:45931x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974			
5	966	994	1019	1037	1047	1045	1030	1007	981	954	931	916	909	911	923	942			
10	952	1022	1087	1138	1165	1162	1122	1059	988	921	870	839	824	827	851	894			
15	944	1042	1133	1204	1242	1241	1188	1098	993	898	832	792	774	778	808	863			
20	936	1078	1202	1294	1348	1356	1293	1167	1008	868	778	728	706	712	749	822			
25	935	1108	1249	1349	1411	1430	1368	1224	1025	851	744	690	668	675	715	798			
30	940	1165	1328	1411	1473	1528	1497	1331	1064	828	698	643	618	629	668	764			
35	949	1216	1378	1426	1486	1566	1590	1421	1102	818	669	614	587	602	638	743			
40	974	1303	1424	1441	1494	1596	1687	1588	1189	819	624	571	538	558	592	716			
45	973	1328	1449	1445	1467	1603	1718	1664	1247	826	599	538	504	523	561	687			
50	963	1346	1502	1359	1256	1502	1758	1676	1258	783	553	481	451	464	503	633			
55	971	1374	1535	1159	957	1280	1765	1693	1272	760	509	444	418	425	462	601			
60	1026	1450	1449	683	471	763	1611	1751	1332	762	446	384	370	368	400	566			
65	1089	1532	1239	400	278	450	1356	1804	1388	793	408	344	340	331	360	558			
70	1047	1634	773	186	157	211	857	1825	1296	789	359	288	300	281	305	570			
75	738	1477	464	122	111	134	525	1634	937	633	328	254	258	248	271	491			
80	225	600	128	63.0	58.9	69.6	159	805	336	289	260	194	141	171	203	226			
85	75.4	161	43.0	32.2	30.2	38.2	63.6	301	105	116	170	129	63.6	98.3	107	81.2			
90	3.47	2.60	1.87	1.30	1.08	2.30	8.16	2.66	2.24	1.73	0.60	0.50	0.46	0.91	2.19	2.17			
95	4.60	3.35	2.17	1.45	1.21	1.16	1.25	1.50	2.87	2.53	0.89	0.57	0.61	1.36	3.28	3.21			
100	6.45	4.75	2.95	1.93	1.63	1.53	1.61	1.96	4.43	3.87	1.64	0.91	1.03	2.58	4.95	4.61			
105	7.49	5.57	3.46	2.25	1.90	1.78	1.86	2.21	5.31	4.57	2.27	1.32	1.55	3.65	5.88	5.23			
110	8.81	6.70	4.31	2.84	2.36	2.23	2.31	2.64	6.43	5.58	3.30	2.27	2.74	5.31	7.12	6.01			
115	9.71	7.45	4.92	3.26	2.69	2.56	2.64	2.96	7.20	6.37	4.01	3.07	3.71	6.39	7.95	6.68			
120	11.1	8.62	5.82	3.87	3.21	3.04	3.11	3.45	8.48	7.58	5.10	4.31	5.13	7.75	9.23	7.65			
125	11.9	9.33	6.35	4.21	3.51	3.34	3.37	3.72	9.22	8.32	5.89	5.14	6.02	8.53	10.04	8.12			
130	12.4	10.0	6.96	4.66	3.89	3.72	3.71	4.01	9.96	9.29	7.07	6.46	7.35	9.62	10.8	8.48			
135	12.4	10.2	7.26	4.96	4.13	3.94	3.93	4.20	10.3	9.81	7.79	7.32	8.27	10.2	11.0	8.53			
140	12.2	10.3	7.59	5.48	4.55	4.29	4.24	4.48	10.5	10.4	8.81	8.50	9.47	10.8	10.8	8.38			
145	12.0	10.3	7.83	5.85	4.88	4.56	4.45	4.64	10.4	10.6	9.39	9.14	10.0	11.0	10.4	8.07			
150	11.6	10.3	8.24	6.43	5.38	4.93	4.77	4.88	10.3	10.7	10.1	9.93	10.6	10.8	9.77	7.55			
155	11.4	10.3	8.55	6.82	5.73	5.22	5.01	5.03	10.2	10.8	10.5	10.4	10.7	10.6	9.39	7.31			
160	11.2	10.4	9.04	7.49	6.33	5.72	5.41	5.30	10.3	10.9	10.9	10.7	10.7	10.2	8.89	7.07			
165	11.0	10.5	9.40	7.99	6.79	6.11	5.70	5.51	10.3	10.9	11.0	10.8	10.6	9.90	8.60	6.96			
170	11.0	10.7	9.94	8.69	7.51	6.73	6.22	5.87	10.5	11.0	11.1	10.8	10.2	9.33	8.18	6.86			
175	10.9	10.9	10.3	9.17	8.06	7.21	6.59	6.11	10.7	11.0	11.0	10.5	9.71	8.82	7.76	6.70			
180	10.8	11.0	10.7	9.86	8.87	7.97	7.14	6.40	10.8	11.0	10.7	9.87	8.90	7.99	7.15	6.40			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:6.895m [K=1.0000]

Remarks: